

Request For Special Temporary Authority from FCC To Exhibit RFID Equipment at JITI Conference on December 7, 2005

Description of STA Purpose and Intended Operations:

This request for Special Temporary Authority is submitted on behalf of NTT America, Inc. for permission to conduct a demonstration of experimental RFID technology in Washington, D.C. on December 7, 2005. NTT Communications Corporation has been invited by the Japan International Transport Institute (JITI) to participate in a conference that will explore the nature and extent of international cooperation on the development and dissemination of new technologies in transportation. As part of the one-day conference, NTT intends to demonstrate an experimental low power active RFID system that will enable real time logistics management and monitoring of shipping containers.

Because the equipment is experimental, will be used for demonstration purposes only during the conference, and will only be used on that single day, NTT is seeking special temporary authority rather than pursuing any longer term experimental authorization at this time.

The demonstration is scheduled to take place at the Ritz Carlton Hotel at 1150 22nd Street, NW in Washington, D.C. The hotel exhibit space for the JITI conference will be located in the basement of the building on the Ball Room level.

The experimental equipment to be operated at the exhibition has been developed by NTT Advanced Technology Corporation and will include a memory tag, a transmitter tag operating at low power on frequency 433.92 MHz, a tag reader and a low frequency (125 KHz) transmitter which is classified as a "faint" frequency in Japan.

NTT America, Inc., a Delaware corporation, is a wholly-owned subsidiary of NTT Communications Corporation which is in turn wholly-owned by Nippon Telegraph and Telephone Corporation of Japan. The Japanese government recently finished a 20-year process of privatizing NTT and reducing its ownership in the corporation to 33.7%. This request is being filed by NTT America, Inc. to provide an efficient means of communications with the Commission on this matter and to provide effective on-site support for the demonstration at the JITI conference. Given the international nature of the conference and the limited nature and short duration of the exhibit, the public interest would be served by grant of this application.

Additional technical information/RFID specifications for the JITI demonstration:

Transmitter tag specifications:

Frequency:	433.92MHz
Frequency stability:	1 0ppm
Spurious:	less than 4nW
Radiation Power:	2.15 dBm EIRP
Occupied bandwidth:	12.5KHz (-36dBc)

Modulation: BFSK
Data Rate: 2.4Kbps
Code: Manchester
Duty Cycle: less than 1%

Low Frequency transmitter specifications:

Frequency:: 125KHz
Radiation power: under $15\mu\text{A/m}$ @ $\lambda/2\pi$
Occupied bandwidth: unchecked
Data Rate: 300bps
Code: Manchester
Duty Cycle: 100%ASK (OOK)